A.2.27 AOC 9A

Description

AOC 9A is located in the southeast corner of Tank Basin 302 in the North Field. This AOC contains one monitoring well (NF-10) that was installed in 1992 to upgrade the site-wide monitoring network. This area was included as an AOC based on BTEX and naphthalene identified in the groundwater from the monitoring well; however, the type of waste/product is unknown. Figure A.2.23 depicts the area in the vicinity of AOC 9A.

No additional investigations of this AOC were performed during the 1st-Phase Soils Investigation or the 1st-Phase Groundwater Investigation. As shown on Figure A.2.23 and summarized on Table A.2.23, one soil boring and analytical data from three soil samples have been used to characterize this AOC. Selected borings and samples from other SWMUs and AOCs located in the vicinity of AOC 9A are also shown on Table A.2.23 for delineation purposes.

Soils

One boring (S0791) was installed in September 2002 during the Full RFI at the approximate location shown on Figure A.2.23 to provide additional characterization of this AOC. Elevated PID readings were noted in the subsurface fill material at this boring. Three soil samples were collected from this boring including a surficial sample from 1.5 to 2 feet bgs, a sample from the fill material with the highest PID reading (S0791B3 at 3 to 3.5 feet bgs), and a sample from the underlying clay and sand materials (11.5 to 12 feet bgs). These three soil samples were analyzed for VOCs, SVOCs, metals and TOL. As shown on Table A.2.23, none of the three samples from this boring contained any exceedances of the soil delineation criteria.

Groundwater

Monitoring well NF-10 is part of the site-wide monitoring program and is sampled regularly, as discussed in Section 8 of the RFI Report. A deep monitoring well (MW-180) was installed adjacent to NF-10 in 2003. As shown on Table A.2.23, benzene (650 µg/L) and xylenes (1,200 µg/L) were detected above the groundwater delineation criteria in the October 2002 groundwater sample from NF-10. Benzene (1,000 µg/L), several other VOCs and SVOCs, and thallium (13.2J µg/L) were detected in the May 2003 groundwater sample from MW-180. A more detailed discussion of groundwater quality in the area of AOC 9A can be found in Section 8 of the RFI Report.

Summary

In summary, no soil delineation criteria were exceeded in soil samples from this AOC. Therefore, soil in the vicinity of AOC 9A does not appear to be the source of groundwater impacts to monitoring well NF-10, nor does SWMU 20, which is located approximately 120 feet downgradient/sidegradient of NF-10. The source of organics in

groundwater at NF-10 and MW-180 has not yet been determined; however, groundwater impacts in the vicinity of AOC 9A will be included for further evaluation in the CMS.